BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Construction of Drain, Providing Covering slab and Kerb Stone from MS Palya Circle to Vidyaranyapura Connecting Road (RHS) in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.**

			Estimate Cost:					3000000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 141 / Item No. 19.2 / PWD SR 2015-16**	Cum							
	Desilting of Drains RHS		1	565.00	0.90	0.60	305.10		
	CC Drain								
	Damage Portion Ch: 138.00 to 152.00 Mtrs		1	14.00	1.20	1.20	20.16		
	Damage Portion Ch: 215.00 to 221.00 Mtrs		1	6.00	1.20	1.20	8.64		
	New CC Drain 0.00 to 30.00 Mtrs		1	30.00	1.20	1.20	43.20		
	SSM Drain								
	Damage Portion Ch: 296.00 to 301.00 Mtrs		1	5.00	2.00	1.20	12.00		
	Damage Portion Ch: 315.00 to 324.00 Mtrs		1	9.00	2.00	1.20	21.60		
							410.70	115.56	**47460.00**
	Basic Rate	107.00							
	Area Weightage @8%	8.56							
	Total	**115.56**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	CC Drain								
	Damage Portion Ch: 138.00 to 152.00 Mtrs		1	14.00	1.20	0.15	2.52		
	Damage Portion Ch: 215.00 to 221.00 Mtrs		1	6.00	1.20	0.15	1.08		
	New CC Drain 0.00 to 30.00 Mtrs		1	30.00	1.20	0.15	5.40		
	SSM Drain								
	Damage Portion Ch: 296.00 to 301.00 Mtrs		1	5.00	2.00	0.15	1.50		
	Damage Portion Ch: 315.00 to 324.00 Mtrs		1	9.00	2.00	0.15	2.70		
							13.20	5070.60	**66932.00**
	Basic Rate	4695.00							
	Area Weightage @8%	375.60							
	Total	**5070.60**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
	Damage Portion Ch: 138.00 to 152.00 Mtrs		2	14.00	0.60	1.35	22.68		
	Damage Portion Ch: 296.00 to 301.00 Mtrs		2	5.00	0.60	1.35	8.10		
	Damage Portion Ch: 315.00 to 324.00 Mtrs		2	9.00	0.60	1.35	14.58		
	Rising of SSM Drain Ch: 296.00 to 411.00 Mtrs		2	115.00	0.60	0.60	82.80		
							128.16	4135.32	**529983.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
4	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Damage Portion Ch: 138.00 to 152.00 Mtrs		2	14.00	0.60	0.10	1.68		
	Damage Portion Ch: 296.00 to 301.00 Mtrs		2	5.00	0.60	0.10	0.60		
	Damage Portion Ch: 315.00 to 324.00 Mtrs		2	9.00	0.60	0.10	1.08		
	Rising of SSM Drain Ch: 0.00 to 152.00 Mtrs		2	152.00	0.60	0.10	18.24		
	Rising of SSM Drain Ch: 296.00 to 411.00 Mtrs		2	115.00	0.60	0.10	13.80		
	Rising of Solid Block on Exisiting CC Drain								
	Ch: 251.00 to 296.00		2	45.00	0.20	0.05	0.90		
	Ch: 411.00 to 565.00		2	154.00	0.20	0.05	3.08		
							39.38	5490.72	**216225.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
5	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2015-16**	Sqm							
	Rising of Solid Block on Exisiting CC Drain								
	Ch: 251.00 to 296.00		2	45.00		0.60	54.00		
	Ch: 411.00 to 565.00		2	154.00		0.60	184.80		
							238.80	999.58	**238700.00**
	Basic Rate	943.00							
	Area Weightage @ 6%	56.58							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**999.58**							
6	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	Bottom								
	Damage Portion Ch: 215.00 to 221.00 Mtrs		1	6.00	1.20	0.15	1.08		
	New Drain		1	30.00	1.20	0.15	5.40		
	Side Wall		2	6.00	0.15	1.20	2.16		
			2	30.00	0.15	1.20	10.80		
	LHS								
	Covering Slab 0.00 to 138.00 Mtrs		1	138.00	1.50	0.10	20.70		
	Covering Slab 296.00 to 575.00 Mtrs		1	279.00	1.50	0.10	41.85		
	RHS		1	105.00	1.50	0.10	15.75		
							97.74	6198.12	**605804.00**
	Basic Rate	5739.00	✓						
	Area Weightage @8%	459.12							
	Total	**6198.12**							
7	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	Consider 70 Kg / Cum		0.07	97.74			6.84		477472
							6.84	69805.80	**477597.00**
	Basic Rate	64635.00	✓						
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Side walls		4	6.00		1.20	28.80		
			4	30.00		1.20	144.00		
			1	138.00	0.60		82.80		
			1	279.00	0.90		251.10		
			1	105.00	0.90		94.50		
							601.20	306.72	**184400.00**
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	**306.72**							
9	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. **Page No. 25 / Item No. 5.30 / PWD SR 2015-16**	Nos							
			1	575.00	=	575	1278		
						0.45			
			1	205.00	=	205	456		
						0.45			555877
							1733	320.76	**555984.00**
	Basic Rate	297.00							
	Area Weightage @ 8%	23.76							
	Total	**320.76**							
10	KSRB 15.19.1 : Providing and applying ready mix **priming coat over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughtly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.80 / PWD SR 2015-16**	Sqm							
			1	565.00		0.35	197.75		
			1	205.00		0.35	71.75		
							269.50	27.00	**7277.00**
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	**27.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	KSRB 15.20.1 : Providing and applying floor **painting with ready mix two coats** (Excluding ming coat) on new s concrete / masonry / asbestos cement sheet / / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.83 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 10				269.50		
							269.50	51.84	**13971.00**
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	**51.84**							
12	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum						78.96	27565
			Vide Item No. 1				**349.10**	73.57	**25683.00**
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130 133	68.00 63.00							
		68.12	73.12						
	Area Weightage @ 8%	5.45	5.84						
	Total	73.57	78.96						
13	Sub Total								2971666.00 **2970016.00**
14	For Third Part QC inspection Charges @ 1%								28334 **29700.00**
15	Miscellaneous and other Charges	L/S							0.00 **284.00**
								Total	**3000000.00**

(Rs. Thirty Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Asst/ Jr Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Administrative Approval
Accorded For 3000000/-
Head of A/C P-1771
CER NO 63 **Dt:** 14.12.2015

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

8/12/15

Technical Sanction
Accorded For 30.00 Lakhs
Head of A/C P-1771
CER NO 33/15-16 **Dt:**

TA

CE (YNK)

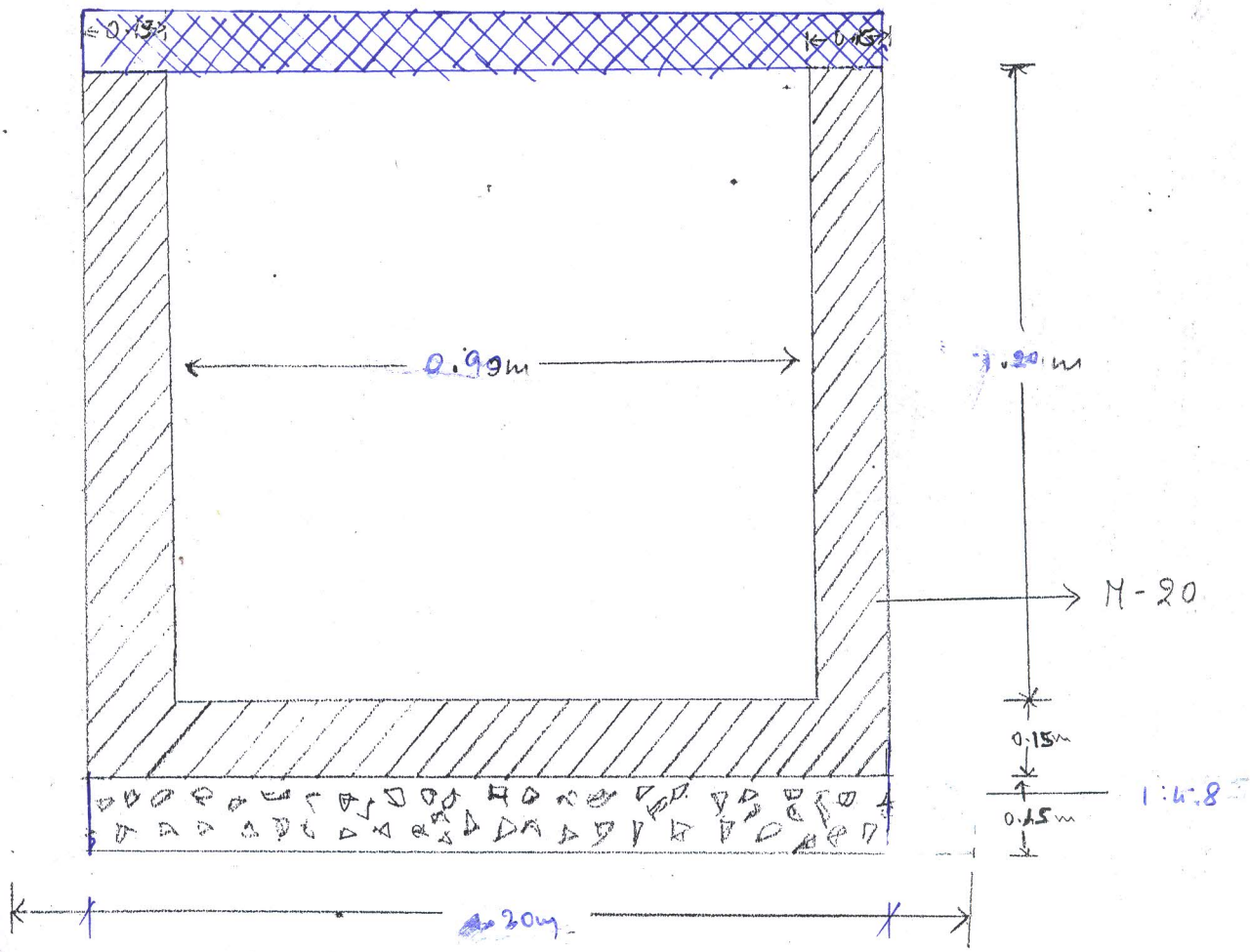
Superintending Engineer I/C
Yelahanka Zone
BBMP, Bangalore

Name of Work: Construction of Drain, Providing Covering slab and Kerb Stone from MS Palya Circle to Vidyaranyapura Connecting Road (RHS) in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Proposed work Spot

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರಿಗೆ
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬಿ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

cross Section of Drain



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ.
ಯಲಹಂಕ ವಲಯ.
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97